electric FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 350A, AC/DC COIL, 250... 500VAC/DC **ENERGY AND AUTOMATION**



Product designation Product type designation			Power contactor BF230
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	350
Operational current le			
	AC-1 (≤40°C)	Α	350
	AC-1 (≤55°C)	Α	290
	AC-1 (≤70°C)	Α	250
	AC-4 (400V)	Α	110
Rated operational power AC-1 (T≤40°C)			
	230V	kW	132
	400V	kW	230
	500V	kW	253
	690V	kW	397
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	145
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	350
	110V	Α	270
	220V	A	225
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	.0.41.4		0=0
	≤24V	A	350
	48V	A	350
	75V	A	350
	110V	A	270
	220V	A	270
IEC may current to in DC1 with L/D < 1 mg with 4 notes in series	330V	Α	225
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	-21 1	Λ	250
	≤24V 48V	A	350 350
	48 V 75 V	A	350 350
	75V 110V	A A	350 350
	220V	A	350 350
	220 V	^	330



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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	135
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
'	≤24V	Α	350
	48V	Α	350
	75V	A	250
	110V	A	225
	220V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		100
TEC max current le in DC3-DC3 with E/N = 13ms with 3 poles in series	≤24V	۸	250
		A	350
	48V	A	350
	75V	A	250
	110V	A	250
	220V	Α	225
	330V	Α	180
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	350
	48V	Α	350
	75V	Α	250
	110V	Α	250
	220V	Α	225
	330V	Α	210
	460V	Α	180
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1840
Protection fuse			
	gG (IEC)	Α	400
	aM (IEC)	Α	250
Making capacity (RMS value)		Α	2300
Breaking capacity at voltage			
	440V	Α	1840
	500V	Α	1472
	690V	Α	1296
Resistance per pole (average value)		mΩ	0.18
Power dissipation per pole (average value)		22	0.10
Tower dissipation per pole (average value)	Ith	W	21
	AC3	W	9.3
Tightoning targue for terminals	ACS	VV	9.3
Tightening torque for terminals		N1	4.0
	min	Nm	18
	max	Nm	18
	min	lbin	159
	max	lbin	159
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°



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Fixing				Screw
Weight			g	4000
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
Performance level B10	od according to EN/ISO 13489-1			
	•	rated load	cycles	1000000
EMC compatibility				yes
AC coil operating				,
Rated AC voltage at 50	0/60Hz, 60Hz			
_		min	V	250
		max	V	500
Rated AC voltage at 50	0/60Hz		V	24
AC operating voltage				
, ,	of 50/60Hz coil powered at 50Hz			
	pick-up			
	1 3 31	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		min	%Us	20
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	p.o.v. ap	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		min	%Us	20
		max	%Us	≤70 Us min
AC average coil consu	mption at 20°C			
· ·	of 50/60Hz coil powered at 50Hz			
	•	in-rush	VA	160230
		holding	VA	1.53.0
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	•	in-rush	VA	160230
		holding	VA	1.53.0
	of 60Hz coil powered at 60Hz	<u> </u>		
	•	in-rush	VA	160230
		holding	VA	1.53.0
Dissipation at holding :	≤20°C 50Hz	<u> </u>	W	1.53.0
DC coil operating				
DC rated control voltage	ge			
		min	V	250
		max	V	500
DC operating voltage				
	pick-up			
	•	min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			_
	·	max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			
,		in-rush	W	160230
		holding	W	1.53.0
		3		

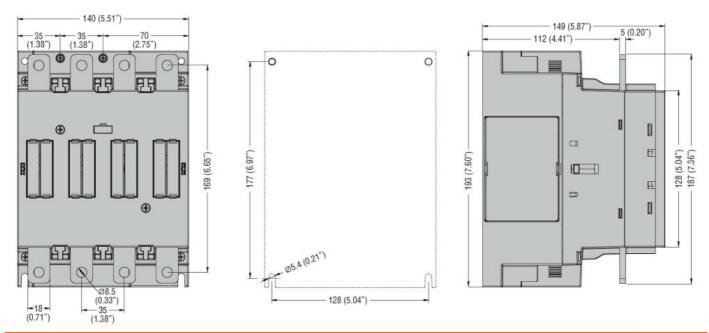
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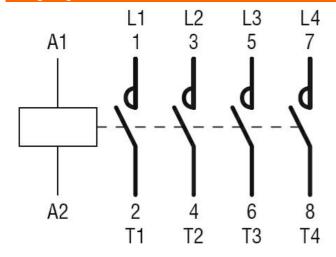
Max cycles frequency				
Mechanical operation			cycles/h	1000
Operating times				
Average time for Us co	ntrol			
-	in AC			
	Closing NO			
		min	ms	50
		max	ms	100
	Opening NO			
		min	ms	30
		max	ms	75
UL technical data				
Yielded mechanical per				
	for three-phase AC motor			
		200/208V	HP	75
		220/230V	HP	75
		460/480V	HP	150
		575/600V	HP	200
General USE				
	Contactor			
		AC current	Α	350
Short-circuit protection				
	High fault			
	Short of	ircuit current	kA	100
		Fuse rating	Α	400
		Fuse class		J
	Standard fault			
	Short o	ircuit current	kA	10
		Fuse rating	Α	400 DK
Ambient conditions		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature	mal-	°C	40
		min	°C	-40 70
	Storage temperature	max	U	10
	Storage temperature	min	°C	-50
		max	°C	80
Max altitude		Пах	m	3000
Resistance & Protectio	n		111	3000
Pollution degree	" 			3
Dimensions				
Difficitions				

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Wiring diagrams



Certifications and compliance

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching